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Mathematical Aspects of Fluid and Plasma Dynamics

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PREFACE

These proceedings record the main lectures given at the third International Workshop on Mathematical Aspects of Fluid and Plasma Dynamics, held in Salice Terme (Italy) from september 26 to september 30, 1988. The Workshop was sponsored by the National Council of the Research (C.N.R.), by the National Group of Mathematical Physics (G.N.F.M.), by the University of Pavia and by the Institute of Numerical Analysis of C.N.R. (I.A.N.). There were 80 participants from 8 countries. The scientific program comprised 18 main lectures and 17 contributed communications.

The main objective of the Workshop, following the first one held in Trieste, Italy, from May 30 to June 2, 1984, and the second one held in Paris-Orsay from June 24 to June 28, 1986, was to develop discussions between plasma theorists, applied mathematicians and numerical analysts involved in plasma physics, fluid dynamics and kinetic theory, with emphasis on mathematical aspects of the theory. This involved a questioning of the basis equations, of considered approximations and solution methods, as well as the analysis of mathematical structures underlying physical phenomena, and the ability of these structures to represent observed experimental facts.

G.Toscani, V.Boffi, S.Rionero
Organizers and Editors

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